

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of	)	Examiner: Ashwin Mehta
	)	
Klessig, Daniel F., et al.	)	Group Art Unit: 1638
	)	
Serial No.: 09/623,034	)	Response to paper No.: 8
	)	
Filed: 08/24/2000	)	
	)	
For: "Methods of Using a Pathogen	)	
Activatable MAP Kinase to	)	
Enhance Disease Resistance in	)	
Plants."	)	

**SUBMISSION OF SEQUENCE LISTING UNDER 37 C.F.R. §§1.821-1.825**

To comply with the requirements under 37 C.F.R. §§1.821-1.825, submitted herewith is a sequence listing of the nucleotide sequences presented in the above-referenced application. The sequence listing is being submitted in both paper copy and computer-readable form.

The sequences submitted as SEQ ID NO:1 and 2 are identical to the Genbank entry D61377 as of the filing date of this application. This statement is believed to provide sufficient evidence to support entry of the sequence (see MPEP 608.01(p), which discusses the incorporation of essential material into the specification).


Applicants respectfully request entry of the sequence listing into the above identified patent application. The undersigned hereby verifies that the paper copy and computer readable form of the sequence listing are identical and do not contain any new matter.

In the event the check is improper, or the fee

calculation is in error, the Commissioner is authorized to charge any underpayment or credit any overpayment to the account of the undersigned attorneys, Account No. 04-1406. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

DANN, DORFMAN, HERRELL AND SKILLMAN  
A Professional Corporation

By   
Kathleen D. Rigaut, Ph.D., J.D.  
PTO Registration No. 43,047

Telephone: (215) 563-4100



## RAW SEQUENCE LISTING

DATE: 03/17/2003

PATENT APPLICATION: US/09/623,034

TIME: 14:07:06

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Output Set: N:\CRF4\03172003\I623034.raw

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4 <110> APPLICANT: Klessig, Daniel F.
5     Zhang, Shuqun
7 <120> TITLE OF INVENTION: METHODS OF USING A PATHOGEN-ACTIVATABLE
8     MAP KINASE TO ENHANCE DISEASE RESISTANCE IN PLANTS
11 <130> FILE REFERENCE: RUT98-0073
13 <140> CURRENT APPLICATION NUMBER: 09/623,034
14 <141> CURRENT FILING DATE: 2000-08-24
16 <150> PRIOR APPLICATION NUMBER: PCT/US99/03882
17 <151> PRIOR FILING DATE: 1999-02-23
19 <150> PRIOR APPLICATION NUMBER: 60/075,685
20 <151> PRIOR FILING DATE: 1998-02-24
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PATENT APPLICATION: US/09/623,034

DATE: 03/17/2003

TIME: 14:07:00

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Output Set: N:\CRF4\03172003\I623034.raw

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74 Ile Gly Arg Gly Ala Tyr Gly Ile Val Cys Ser Val Leu Asn Thr Glu
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76 Leu Asn Glu Met Val Ala Val Lys Lys Ile Ala Asn Ala Phe Asp Ile
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82 Leu Arg Arg Glu Phe Ser Asp Val Tyr Ile Ala Thr Glu Leu Met Asp
83 115 120 125
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85 130 135 140
86 His Cys Gln Tyr Phe Met Tyr Gln Leu Leu Arg Gly Leu Lys Tyr Ile
87 145 150 155 160
88 His Ser Ala Asn Val Leu His Arg Asp Leu Lys Pro Ser Asn Leu Leu
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90 Val Asn Ala Asn Cys Asp Leu Lys Ile Cys Asp Phe Gly Leu Ala Arg
91 180 185 190
92 Pro Asn Ile Glu Asn Glu Asn Met Thr Glu Tyr Val Val Thr Arg Trp
93 195 200 205
94 Tyr Arg Ala Pro Glu Leu Leu Asn Ser Ser Asp Tyr Thr Ala Ala
95 210 215 220
96 Ile Asp Val Trp Ser Val Gly Cys Ile Phe Met Glu Leu Met Asn Arg
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98 Lys Pro Leu Phe Gly Gly Lys Asp His Val His Gln Ile Arg Leu Leu
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100 Thr Glu Leu Leu Gly Thr Pro Thr Glu Ala Asp Leu Gly Phe Leu Gln
101 260 265 270
102 Asn Glu Asp Ala Lys Arg Tyr Ile Arg Gln Leu Pro Gln His Pro Arg
103 275 280 285
104 Gln Gln Leu Ala Glu Val Phe Pro His Val Asn Pro Leu Ala Ile Asp
105 290 295 300
106 Leu Val Asp Lys Met Leu Thr Phe Asp Pro Thr Arg Arg Ile Thr Val
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**VERIFICATION SUMMARY**

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